RETROSPECTIVE RESPIRATORY GATING FOR IMAGING AND TREATMENT

Abstract of Disclosure

A system for registering images using retrospective gating, the system comprising: an imaging system; an object disposed to be communicated with the imaging system, wherein the imaging system generates image data responsive to said object; and a processing device. The processing device executes a method comprising: determining a target area of interest; obtaining scout image data responsive to the target area; and processing the target area so as to create a sub-target area of interest. The method also includes computing a desired image acquisition time; operating said imaging system to create image data responsive to each sub-target area; combining the image data for each of the sub-target areas to create a set of image data; processing the image data to determine a phase of the image data; and synchronizing the image data.

Figures